In the Claims

- 1. 47. (Cancelled)
- 48. (New) A method of depositing by flame or plasma spraying at atmospheric pressure a layer onto a substrate, the layer having a thickness of at least 5 mm, the coating comprising metal oxides, the method including the steps of:
 - depositing an additional noble metal with the coating to increase thermal conductivity of the coating, and
 - during deposition of the coating, cooling the substrate so that the solidified coating thereon has a temperature between 25 and 150°C.
- 49. (New) The method of claim 48, wherein the temperature of the solidified coating during deposition is held at between 50 and 100°C.
- 50. (New) The method according to claim 48, wherein the noble metal is silver.
- 51. (New) The method according to claim 50, wherein silver containing material is included in material to be sprayed to result in up to 30% silver in the coating as deposited.
- 52. (New) The method according to claim 48, wherein the spraying step includes spraying a material through a spraying head, the material being in the form of one of a powder, a slurry or a solution.
- 53. (New) The method according to claim 48, wherein the cooling is with a cryogenic liquid.
- 54. (New) The method according to claim 48, wherein the coating comprises a superconductive precursor and at least 10% of the layer is in a superconductive phase as deposited.
- 55. (New) The method according to claim 50 wherein the layer has a thickness of greater than 8mm.

56. (New) A composite comprising: a substrate and a coating obtained by the method of claim 48, the thickness of the coating being at least 5 mm, the coating comprising metal oxides and the deposited coating comprising the addition of a noble metal to increase thermal conductivity of the coating.